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Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4Full text available: [pdf\(166.90 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

2 [IP Masquerading with Linux: How to enable and configure IP masquerading with Linux](#)

Chris Kostick

July 1996 **Linux Journal**Full text available: [html\(19.20 KB\)](#)
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3 [CIDR](#)

David A. Bandel

December 1998 **Linux Journal**Full text available: [html\(16.85 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [index terms](#)

A Prescription for Shortness of Address Space: This article explains the concept of CIDR and shows you how you can implement it on your network

4 [ISDN and Linux--Surfing at Warp Speed](#)

Mark Buckaway

March 1998 **Linux Journal**Full text available: [html\(25.66 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents a detailed tutorial on setting up an ISDN link to the Internet with Linux

The Cutting Edge: The Penguin and the Dinosaur

Adam J. Thornton

June 2000 **Linux Journal**

Full text available:  [html\(27.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Think Linux is only for the PC? Think again.



6 Papers: Open signaling for ATM, internet and mobile networks (OPENSIG'98)

Andrew T. Campbell, Irene Katzela, Kazuho Miki, John Vicente

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

Full text available:  [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The ability to rapidly create and deploy new transport, control and management architectures in response to new service demands is a key factor driving the programmable networking community. Competition between service providers may hinge on the speed at which one provider can respond to new market demands over another. The notion of open programmable networks is having broad impact on service providers and vendors across a range of telecommunication sectors calling for major advances in open ne ...



7 GPRS and UMTS release 2000 A11-IP option

Jonne Soininen

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

Full text available:  [pdf\(1.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This article will describe to the reader the Universal Mobile Telecommunications System (UMTS) packet switched architecture and the UMTS release currently under specification --- Release 2000. The article will discuss the relevant features of the Release 1999 architecture in order to give the reader the background knowledge to understand the Release 2000 IP Multimedia architecture. Aspects of the Release 2000 are described in greater detail when the topic is especially interesting and revolution ...



8 The click modular router

Eddie Kohler, Robert Morris, Benjie Chen, John Jannotti, M. Frans Kaashoek

August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3

Full text available:  [pdf\(376.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Clicks is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called elements. Individual elements implement simple router functions like packet classification, queuing, scheduling, and interfacing with network devices. A router configurable is a directed graph with elements at the vertices; packets flow along the edges of the graph. Several features make individual elements more powerful and ...

Keywords: component systems, routers, software router performance



9 High-capacity Internet middleware: Internet caching system architectural overview

Gary Tomlinson, Drew Major, Ron Lee

March 2000 **ACM SIGMETRICS Performance Evaluation Review**, Volume 27 Issue 4

Full text available:  [pdf\(571.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Previous studies measuring the performance of general-purpose operating systems running large-scale Internet server applications, such as proxy caches, have identified design deficiencies that contribute to lower than expected performance and scalability. This paper




introduces a high-capacity proxy cache service built upon a specialized operating system designed to efficiently support large-scale Internet middleware. It suggests that specialized operating systems can better meet the needs of the ...

10 An end-to-end approach to host mobility

Alex C. Snoeren, Hari Balakrishnan

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**

Full text available:  [pdf\(1.35 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the design and implementation of an end-to-end architecture for Internet host mobility using dynamic updates to the Domain Name System (DNS) to track host location. Existing TCP connections are retained using secure and efficient connection migration, enabling established connections to seamlessly negotiate a change in endpoint IP addresses without the need for a third party. Our architecture is secure—name updates are effected via the secure DNS update protocol, while TCP ...

11 Kernel Korner: The Bullet Points: Linux 2.4 - Part Deux

Joe Pranevich

September 2000 **Linux Journal**


Full text available:  [html\(19.34 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This article should be considered an addendum to my previous "Bullet Points" article and my follow up piece on ISA PnP support in Linux 2.4 (February, 2000.)

12 VoIP and Embedded Linux

September 2000 **Linux Journal**


Full text available:  [html\(9.15 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

13 Moreton Bay PoPToP/NetTEL

Jon Valesh

May 2000 **Linux Journal**

Full text available:  [html\(17.64 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

14 Evaluation and testing of internet firewalls

Khalid Al-Tawil, Ibrahim A. Al-Kaltham

May 1999 **International Journal of Network Management**, Volume 9 Issue 3

Full text available:  [pdf\(587.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this article we propose a testing methodology for evaluating Internet firewalls and apply it to compare two popular firewalls. Copyright © 1999 John Wiley & Sons, Ltd.

15 Secure virtual private networks: the future of data communications

Eli Herscovitz

August 1999 **International Journal of Network Management**, Volume 9 Issue 4

Full text available:  [pdf\(230.05 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Internet is an almost ideal means for information retrieval and exchange. It is cost-effective, easy to use and easily accessible. However, it can also be susceptible to devious practices such as data tempering, eavesdropping and theft. This paper analyses secure virtual private networks ∥VPNs∥ and their use in countering the problems of the

Internet. Copyright © 1999 John Wiley & Sons, Ltd.

16 Optimizing TCP forwarder performance


Oliver Spatscheck, Jørgen S. Hansen, John H. Hartman, Larry L. Peterson
April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2

Full text available:  [pdf\(119.23 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: TCP, firewall, proxy, router

17 Characterizing processor architectures for programmable network interfaces

Patrick Crowley, Marc E. Fluczynski, Jean-Loup Baer, Brian N. Bershad
May 2000 **Proceedings of the 14th international conference on Supercomputing**

Full text available:  [pdf\(984.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid advancements of networking technology have boosted potential bandwidth to the point that the cabling is no longer the bottleneck. Rather, the bottlenecks lie at the crossing points, the nodes of the network, where data traffic is intercepted or forwarded. As a result, there has been tremendous interest in speeding those nodes, making the equipment run faster by means of specialized chips to handle data trafficking. The Network Processor is the blanket name thrown ...

18 NetNews

Dennis Fowler
June 2000 **netWorker**, Volume 4 Issue 2

Full text available:  [pdf\(164.50 KB\)](#) Additional Information: [full citation](#), [index terms](#)

19 System Administration: IP Masquerading Code Follow-Up

Chris Kostick
November 1997 **Linux Journal**

Full text available:  [html\(20.31 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

20 Open Signaling for ATM, INTERNET and Mobile Networks (OPENSIG'98)

Andrew T. Campbell, Irene Katzela, Kazuho Miki, John Vicente
April 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 2

Full text available:  [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The ability to rapidly create and deploy new transport, control and management architectures in response to new service demands is a key factor driving the programmable networking community. Competition between service providers may hinge on the speed at which one provider can respond to new market demands over another. The notion of open programmable networks is having broad impact on service providers and vendors across a range of telecommunication sectors calling for major advances in open ne ...

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